

GENERAL NOTES:

These details are for the fabrication and installation of temporary concrete barrier rail. Details shown are typical.

All reinforcement is Grade 60, ASTM A615, except the loop bars 6D1, 6D2 and 6D3. The loop bars shall be 3/4" smooth steel bars with a minimum yield of 60 ksi, a tensile strength of not less than 1.25 times the yield strength but a minimum of 80 ksi, a minimum 14% elongation in 8 inches, and passing a 180 degree bend test using a 3.50 inches pin bend diameter. The loops shall be installed within 1/8" of the plan dimensions.

The Contractor shall provide for an approved monitoring schedule with a person on call and available 24 hours a day, each day of the week, to realign barrier which has been struck. Initiation of service shall be within one hour of notification of need.

Markers shall be furnished and installed by the Contractor. Markers shall be placed on the barrier as recommended by the manufacturer and as shown in the Marker Placement Detail. The markers shall be installed at 12.5 foot spacing and face oncoming traffic. Refer to Details of Barrier Placement. The contractor shall maintain the markers and promptly repair or replace any damaged or missing units. All costs for furnishing, installing and maintaining markers shall be included in the price bid for the temporary barrier rail.

Unless stated otherwise in the plans, the barrier rail sections shall remain the property of the Contractor and at the completion of the work shall be removed from the site by the Contractor.


ANCHOR BOLTS: When indicated in Tabulation 108-33, use 1 1/8" Grade 55, ASTM F-1554 Anchor Bolts with heavy hex nut and washer (ASTM A36).

LIFTING SLOTS: Lifting slots shall be constructed where specified on the plans to facilitate the drainage of water after installation on the roadway.

At no time shall the barriers be lifted, moved, etc. by the use of the loop bars: 6D1, 6D2 or 6D3.

Contract Item is "Temporary Barrier Rail, Concrete".

- ① Per Materials I. M. 571, one end of each rail shall be permanently marked with the following information:
 - RE-71
 - Type A
 - Manufacturer
 - Date Manufactured (month and year)
- ② Lifting Hole. 4" diameter PVC Pipe.

 Iowa Department of Transportation Highway Division	
STANDARD ROAD PLAN RE-71(1)	
REVISION: Changed number of bars and added strap tie down.	REVISION NO. 4
APPROVED BY: <i>William J. Allen</i> DESIGN/METHODS ENGINEER	REVISION DATE 04-15-03
F-SHAPE (PRECAST) TEMPORARY CONCRETE BARRIER RAIL (PAGE 1 OF 2)	